

04-062 Sequence Listing  
SEQUENCE LISTING

<110> TAKARA BIO INC.  
<120> Composition for suppressing human Flt-3 function  
<130> 04-062-PCTJP  
<150> JP2003-350253  
<151> 2003-10-09  
<160> 40  
<170> PatentIn version 3.3  
<210> 1  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> A partial cDNA sequence of ATP-binding site.  
<400> 1  
aaggtactag gatcaggtgc t 21  
  
<210> 2  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Designated as SEQ1-S. "nucleotides 20 and 21 are  
deoxyribonucleotides - other nucleotides are ribonucleotides."  
<400> 2  
gguacuagga ucaggugcut t 21  
  
<210> 3  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Designated as SEQ1-AS. "nucleotides 20 and 21 are  
deoxyribonucleotides - other nucleotides are ribonucleotides."  
<400> 3  
agcaccugau ccuaguacct t 21  
  
<210> 4  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> A partial cDNA sequence of TK domain.  
<400> 4  
aacaggagtc tcaatccagg t 21

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<210> 5
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ2-S. "nucleotides 20 and 21 are
      deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 5
caggagucuc aauccaggut t                                     21

<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ2-AS. "nucleotides 20 and 21 are
      deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 6
accuggauug agacuccugt t                                     21

<210> 7
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> A partial cDNA sequence of FLT3/ITD domain.

<400> 7
aatatgaata tgatctcaaa t                                     21

<210> 8
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ3-S. "nucleotides 20 and 21 are
      deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 8
uaugaaauug aucucaaaut t                                     21

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ3-AS. "nucleotides 20 and 21 are
      deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 9

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auuugagauc auauucauat t		21
<210> 10		
<211> 21		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> A partial cDNA sequence of bcr/abl chimera domain.		
<400> 10		
aagcagagtt caaaagcccu u		21
<210> 11		
<211> 21		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."		
<400> 11		
gcagaguuca aaagcccuut t		21
<210> 12		
<211> 21		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."		
<400> 12		
aagggcuuuu gaacucugct t		21
<210> 13		
<211> 23		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> PCR primer FLT11F for amprifying a gene encoding FLT3.		
<400> 13		
gcaatttagg tatgaaagcc agc		23
<210> 14		
<211> 23		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> PCR primer FLT12R for amprifying a gene encoding FLT3.		
<400> 14		
ctttcagcat tttgacggca acc		23

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<210> 15  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer G1 for amplifying a gene encoding GAPDH.

<400> 15  
 caacagcctc aagatcatca gc 22

<210> 16  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer G2 for amplifying a gene encoding GAPDH.

<400> 16  
 ttctagacgg caggtcaggt c 21

<210> 17  
 <211> 64  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Expression cassette FLT3SI1F for expressing siRNA for ATP-binding domain. "the region of nucleotides 1 to 5 is BamHI restriction site - the region of nucleotides 26 to 34 is loop site - the region of nucleotides 54 to 59 is RNA polymerase III terminator

<400> 17  
 gatcccggtg ctaggatcag gtgctttcaa gagaagcacc tgatcctagt accttttttg 60  
 gaaa 64

<210> 18  
 <211> 64  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Expression cassette FLT3SI1R for expressing siRNA for ATP-binding domain. "the region of nucleotides 1 to 5 is HindIII restriction site - the region of nucleotides 10 to 15 is RNA polymerase III terminator site - the region of nucleotides 35 to 43 is loop

<400> 18  
 agcttttcca aaaaaggtac taggatcagg tgcttctctt gaaagcacct gatcctagta 60  
 ccgg 64

<210> 19

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<211> 64  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Expression cassette FLT3CON1F for expressing control sequence.  
 "the region of nucleotides 1 to 5 is BamHI restriction site - the  
 region of nucleotides 26 to 34 is loop site - the region of  
 nucleotides 54 to 59 is RNA polymerase III terminator site"  
  
 <400> 19  
 gatcccggag tcgtagctgc agtatttcaa gagaatactg cagctacgac tccttttttg 60  
 gaaa 64  
  
 <210> 20  
 <211> 64  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Expression cassette FLT3CON1R for expressing control sequence.  
 "the region of nucleotides 1 to 5 is HindIII restriction site -  
 the region of nucleotides 10 to 15 is RNA polymerase III  
 terminator site - the region of nucleotides 35 to 43 is loop  
  
 <400> 20  
 agctttttcca aaaaaggagt cgtagctgca gtatttcttt gaaatactgc agctacgact 60  
 ccgg 64  
  
 <210> 21  
 <211> 64  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Expression cassette FLT3SI3F for expressing siRNA for FLT3/ITD  
 domain. "the region of nucleotides 1 to 5 is BamHI restriction  
 site - the region of nucleotides 26 to 34 is loop site - the  
 region of nucleotides 54 to 59 is RNA polymerase III terminator  
  
 <400> 21  
 gatccctatg aatatgatct caaatttcaa gagaatttga gatcatattc atattttttg 60  
 gaaa 64  
  
 <210> 22  
 <211> 64  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Expression cassette FLT3SI3R for expressing siRNA for FLT3/ITD  
 domain. "the region of nucleotides 1 to 5 is HindIII restriction  
 site - the region of nucleotides 10 to 15 is RNA polymerase III  
 terminator site - the region of nucleotides 35 to 43 is loop

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<400> 22  
agcttttcca aaaaatatga atatgatctc aaattctctt gaaatttgag atcatattca 60  
tagg 64

<210> 23  
<211> 64  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Expression cassette FLT3CON3F for expressing control sequence.  
"the region of nucleotides 1 to 5 is BamHI restriction site - the  
region of nucleotides 26 to 34 is loop site - the region of  
nucleotides 54 to 59 is RNA polymerase III terminator site"

<400> 23  
gatcccaata atttgcttca aagatttcaa gagaatcttt gaagcaaatt attttttttg 60  
gaaa 64

<210> 24  
<211> 64  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Expression cassette FLT3CON3R for expressing control sequence.  
"the region of nucleotides 1 to 5 is HindIII restriction site -  
the region of nucleotides 10 to 15 is RNA polymerase III  
terminator site - the region of nucleotides 35 to 43 is loop

<400> 24  
agcttttcca aaaaaaataa ttgcttcaa agattctctt gaaatctttg aagcaaatta 60  
ttgg 64

<210> 25  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> 5' sequencing primer.

<400> 25  
taatacgact cactataggg 20

<210> 26  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> 3' sequencing primer.

<400> 26

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aggcgattaa gttgggta

18

<210> 27  
 <211> 144  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Juxtamembrane domain.

<400> 27  
 tgtcacaagt acaaaaagca atttaggtat gaaagccagc tacagatggg acaggtgacc 60  
 ggctcctcag ataatgagta cttctacggt gatttcagag aatatgaata tgatctcaaa 120  
 tgggagtttc caagagaaaa tttt 144

<210> 28  
 <211> 471  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Tyrosine kinase domain.

<400> 28  
 acgcaacagc ttatggaatt agcaaacagc gagtctcaat ccagggtgcc gtcaaaatgc 60  
 tgaaagaaaa agcagacagc tctgaaagag aggcactcat gtcagaactc aagatgatga 120  
 cccagctggg aagccacgag aatattgtga acctgctggg ggcgtgcaca ctgtcaggac 180  
 caatttactt gatttttgaa tactgttgct atgggtgatct tctcaactat ctaagaagta 240  
 aaagagaaaa atttcacagg acttggaacag agattttcaa ggaacacaat ttcagttttt 300  
 accccacttt ccaatcacat ccaaattcca gcatgcctgg ttcaagagaa gttcagatac 360  
 acccggactc ggatcaaattc tcagggcttc atgggaattc atttcactct gaagatgaaa 420  
 ttgaatatga aaacaaaaaa aggctggaag aagaggagga cttgaatgtg c 471

<210> 29  
 <211> 517  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> ATP-binding domain.

<400> 29  
 gagtttggga aggtactagg atcaggtgct tttggaaaag tgatgaacgc aacagcttat 60  
 ggaattagca aaacaggagt ctcaatccag gttgccgtca aaatgctgaa agaaaaagca 120  
 gacagctctg aaagagaggc actcatgtca gaactcaaga tgatgaccca gctgggaagc 180  
 cacgagaata ttgtgaacct gctgggggagc tgcacactgt caggaccaat ttacttgatt 240  
 tttgaatact gttgctatgg tgatcttctc aactatctaa gaagtaaaag agaaaaattt 300

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cacaggactt ggacagagat tttcaaggaa cacaatttca gtttttacct cactttccaa 360  
 tcacatccaa attccagcat gcctggttca agagaagttc agatacaccc ggactcggat 420  
 caaatctcag ggcttcatgg gaattcattt cactctgaag atgaaattga atatgaaaac 480  
 caaaaaaggc tggaagaaga ggaggacttg aatgtgc 517

<210> 30  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>  
 <223> "nucleotides 20 and 21 are deoxyribonucleotides - other  
 nucleotides are ribonucleotides."

<400> 30  
 gguuauaguac aggaacgcat t 21

<210> 31  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>  
 <223> "nucleotides 20 and 21 are deoxyribonucleotides - other  
 nucleotides are ribonucleotides."

<400> 31  
 ugcguuccug uacauaacct t 21

<210> 32  
 <211> 19  
 <212> DNA  
 <213> Artificial

<220>  
 <223> A partial cDNA sequence of ATP-binding domain.

<400> 32  
 ggtactagga tcaggtgct 19

<210> 33  
 <211> 19  
 <212> RNA  
 <213> Artificial

<220>  
 <223> siRNA

<400> 33  
 gguacuagga ucaggugcu 19

<210> 34  
 <211> 19  
 <212> RNA



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<213> Artificial

<220>

<223> siRNA

<400> 34

agcaccugau ccuaguacc

19

<210> 35

<211> 19

<212> DNA

<213> Artificial

<220>

<223> A partial cDNA sequence of TK domain.

<400> 35

caggagtctc aatccaggt

19

<210> 36

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 36

caggagucuc aauccaggu

19

<210> 37

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 37

accuggauug agacuccug

19

<210> 38

<211> 19

<212> DNA

<213> Artificial

<220>

<223> A partial cDNA sequence of FLT3/ITD domain.

<400> 38

tatgaatatg atctcaaat

19

<210> 39

<211> 19

<212> RNA

<213> Artificial

<220>

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<223> siRNA

<400> 39

uauuagaaug aucucaaau

19

<210> 40

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 40

auuugagauc auaucaua

19